

FROM THE DESK OF BILL JOHNSON

Here's the second issue of QTS. I am sure that you will like what you find inside. Many of you may have been a little leary of subscribing to a new Publication like QTS. In the Past some of you may have subscribed to a Publication just to have them Put out an issue or two and then fold. This will not happen to QTS! The response to QTS has been overwhelming-it has surpassed even my greatest expectations. We should hit the 1,500 to 2,000 subscriber mark by the Summer issue. Our Pledge is to Provide you with good information and on time!

The T/S world seems to be growing stronger every day. Many People thought that the T/S was dead when Timex and SYNC Pulled out. as People are starting to realize millions of People have a T/S and still want to use them. This has resulted in a very strong market for manufacturers and dealers. The end result is that the user receives better service and quality merchandise as dealers start to compete for your support. Inside you will find a sign of this when you look under the new Products section and discover that two firms have introduced disc drive interfaces for the TS2068. This is a sure sign that the T/S is alive and still TICKING!

Until next time...

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Dear QTS:

Received my winter issue of QTS and commend you on a good start. I'm looking for a continuation. There is definitely room for a publication of this type.

I enjoy the 1000 and 2068 very much and am involved in experimenting with improvement and expansion of their use-particularly the ZX81/TS1000.

Good idea-giving tips to translate program from 2068 to 1000 and vice versa-pat on the back.

```
Bill Johnson(Timex-Sinclair BASIC,
Winter 85 page 3)-error-line 130 If
Q<>1000 OR...etc.. Should be if Q<>1
OR...etc. But how about:
110 INPUT Q
115 IF Q<1 OR Q>3 THEN GOTO 110
120 GOTO Q * 1000
```

I am also having problems getting Syntax. My last issue is October.

I find it very handy to have 2 recorders connected to the computer. I had to make a little "black box" with a rotary switch. 4 positions 3 pole switch can be wired to give Save #1, Save #2, Load #1 and Load #2, and also prevents ground loops by having no duplicate grounds. Also have a power switch included. No more changing plugs back and forth. I basically use 1 recorder for save and the other for loading.

Chuck Dawson's Question and Answer (Timex Tips, Winter 85 page 5):

Can a program set to auto-run be loaded without running? He answers no, with regard to the TS1000/ZX81. But it could be, as follows:

1. Press BREAK between load and run. You have to be quick to do this. If the break report shows list the program.
2. Use the Save Load ROM routine peculiarities. The Save & Load checker looks only for quotes and a string. So if you type in the

immediate mode SAVE CHR\$USR 832 "" and then start the tape. The computer 1st performs the USR 832 which is the ROM load routine and then returns to Basic to finish the line. Evaluation of the line after load is zero with the CHR\$ changing the zero to a string so we have Save "0" or rather Save" " as the CHR\$ of 0 is a space. Then the computer goes into the save mode and you can either save the program to tape at this point or press BREAK and then list the program. After this Save mode is completed then auto run takes over.

By having a 2nd computer attached ready to save it is simple to change over and save before auto run. I note that others have also done this. As far as my records go I think Gary Preston of Glade Hill, VA was one of the 1st to note this procedural possibility.

3. There are also several Machine Code routines that I have on file that will stop Auto Run. Some put the routines above Ramtop and others put them into a REM with a loader so designed that as the program load takes place the REM loader is wiped out, the program is loaded and no Auto Run.

I use #2 and with a 2 recorder set up I can get a good computer Save inbetween Load and Auto Run. This is very handy.

O. K. I note that you have a schedule of payment and I'm not interested in payment. But I would like to send through odds & ends such as the above plus some rather simple Low Tech hardware items that I have found useful. You may use or not the material as you see fit. If they help the cause along that is enough. Also no bylines or names necessary. It's my hobby.

Sincerely,

M. Heuseveldt, Lantana, FL.

P. S. I'm glad I subscribed!

TS2068 SUBROUTINE ADDS
INTELLIGENCE TO PROGRAMS
by Thomas Beutel

Computer users are Painfully aware of the need to input information Perfectly if a computer Program is to understand them. Here's a short subroutine that adds intelligence to your Programs to make them user friendly. It will compare a user's input to a list of words that a computer is expecting. If an exact match is not found it calculates the best match based on the similarity of the letters in the words. This allows the Program to accept user inputs with typos rather than make the user enter the info again.

```
1000 RESTORE 1100: REM WORD LIST
    POINTER
1005 LET R=0: LET C$=""
1010 READ B$: IF B$="*" THEN RET
    URN
1015 IF B$=A$ THEN LET C$=B$: RE
    TURN
1020 LET T=0
1025 FOR I=1 TO LEN A$
1030 FOR J=1 TO LEN B$
1035 IF ABS(J-I)>3 THEN GOTO 104
    5
1040 IF A$(I)=B$(J) THEN LET T=T
    +2 (3-(ABS(J-I)))
1045 NEXT J
1050 NEXT I
1055 IF T>R THEN R=T: LET C$=B$
1060 GOTO 1010
```

Best matches are found by calculating a score for letter-to-letter similarity. If two matching letters are in the same Position, 8 Points are added to the total score. If they are off by one Position, 4 Points are added. Two Positions off adds 2 Points and three Positions off adds 1 Point. If the matching letters are more than three Positions apart nothing is added. Once all letters are checked, the word is ranked and the word with the highest score is returned.

A sample Program and word list is shown below. Note that the input to the routine is C\$, and the last list entry is a "*". Run the Program and input one of the choices on the list with a typo in it. The routine will

Probably Print the word that you meant to type.

```
10 INPUT "ENTER A WORD: ";A$
20 GOSUB 1000
30 PRINT "THE CLOSEST MATCH I
S ";C$
40 STOP
1100 DATA "INTERROGATE","INTEGR
ATE","INSPECT","INNOVATE"
1110 DATA "DATA","IMPORT","ILLUMINATE"
,"INTERNATIONAL","*"
```

QUESTIONS & ANSWERS
by Chuck Dawson

QUESTION: In the book "Programming your TS1000", it says you must name a Program with a REM statement, then enter the command SAVE and the name in quotes. TS USER says include the name in a REM statement and later in the Program include a line with SAVE and the name. I thought REM statements were ignored, so how can they have any effect in the matter?

ANSWER: You are right! The computer ignores all REM statements, they are there for you. It is possible, with the TS1000, to SAVE a Program and then forget the name you used. That is the reason for the REM which shows the name of the Program. If, on the other hand, you want the Program to auto run after loading, then you include the SAVE "NAME" as a line in the Program. In that case, you can always look at the listing to get the name so the REM is really not needed. However, some people like the name near the beginning of a Program so they don't have to look for it. This is probably the reason it was suggested you add a REM near the beginning of the listing.

Here is a tip for TS2068 users. Include the following as the first line of a Program: 1 REM SAVE "name" LINE 10. This shows the name and also makes for an easy way to save the Program to auto run at line 10 (or whatever). Just pull the REM

line down to the bottom of the screen using EDIT (CaPs shift 1), delete the REM and line number, and Press ENTER. The Program will save and it will varify Properly. this is not the case when using a SAVE command down in the Program somewhere. To enter two keywords on the same line, you enter the second keyword (SAVE), then move the cursor to the left using the CaPs shift 5, and type the first keyword (REM).

QUESTION: I have several Programs which use many PRINT statements throughout to send data to the screen. Is there a way I can send the data to the 2040 Printer without changing all the PRINT statements to LPRINT statements? I have a TS2068.

ANSWER: Yes, it just so happens there is a way. This is possible because of the very flexible way the TS2068 operating system is designed. Before running the Program, do this: OPEN #2, "P". This sends all data normally destined for the screen to the Printer. You can return things to normal by entering: CLOSE #2. I hope this is useful to you.

QUESTION: How can I Print a message on the bottom line of the TS2068 screen without using INPUT?

ANSWER: Just add the symbols "#1," after PRINT. For example, PRINT #1;"Hi there!" will Print on the bottom line. You must add a PAUSE 0 if it is near the end of the Program or the "Hi there!" will be overwritten by the "OK" showing that the Program has successfully completed.

If you have any tips or questions that you would like answered Please write Chuck %WMJ Data Systems. We may not be able to Print all replies so Please include a SASE for a Personal answer.

The next issue of QTS will be done on a daisy wheel printer-see "Dear QTS" for an example.

TS2068 TIPS Compiled by Bill Johnson

DELETE...DELETE

Here is a hint for 2068 owners which was sent to us by R. Bredhoff, Brooklyn, NY:

I have a hint that I discovered quite by accident and which helps to overcome a ROM bug (see TS2068 Tech Manual Pg. 145). It is almost impossible to change a line number on any statement which is more than 2 lines long because the DELETE keyword comes on instead of auto-repeat and the line number just will not DELETE. Well...I discovered that if the K cursor is placed to the LEFT of all of the line number digits, they will DELETE as if they were in a PRINT string. This leads to the solution of a similar trouble with the colon (:) delimiter between statements in a multi-statement line. Just enclose it in quotes (") and it will delete as though it were in a PRINT string...because it is!

FLASH, PAPER, BRIGHT...

The following tips were sent to us by Timothy Kessler, Uniontown, PA; Note: Tim is the author of the newest addition to WMJ Data System's Product line, The Dealer's Den, a TS2068 Program that we really like:

To get something to FLASH you usually type something like:

```
10 FLASH 1: PRINT "QuarTerS":FLASH 0
```

It can also be done this way:

```
10 PRINT "
```

at this point Press CAPS SHIFT and SYMBOL SHIFT to get the "E" cursor. Then Press CAPS SHIFT and the "9" key. Everything now typed FLASHes. Type QuarTerS. To turn off the FLASH Press CAPS SHIFT and SYMBOL SHIFT, then CAPS SHIFT and the "8" key.

BRIGHT, PAPER, and INK are also Possible.

BRIGHT: Press CAPS SHIFT and SYMBOL SHIFT then Press the "9" key. To turn off Press CAPS SHIFT and SYMBOL SHIFT then Press the "8" key.

PAPER: Press CAPS SHIFT and SYMBOL SHIFT and key with desired PAPER color (ex: 4 for green PaPer). Remember to change PaPer color back to original color on your Program listing will be in the new color!

INK: Press CAPS SHIFT and SYMBOL SHIFT then CAPS SHIFT and desired ink color. Remember to change ink color back to original.

SCREEN\$ CHARACTERS

Here are two Programs that will determine which SCREEN\$ characters are recognized by the TS2068 SCREEN\$ command. We thank H. H. Grote, Boulder, CO for the Programs:

I omitted the CHR\$ codes 0 to 31 since they are not considered for Printout. Showing only the characters NOT Printed seems to be clearer than the opposite. In the second Program I went only up to code 174 to get a cleaner picture.

Program 1

```
100 LET T=2
110 FOR I=32 TO 174
120 PRINT CHR$ I;
130 NEXT I
140 PRINT ,,
150 FOR V=0 TO 5
160 FOR H=0 TO 31
170 LET A=CODE SCREEN$ (V,H)
180 IF A=0 THEN PRINT TAB T;CHR
$(32*V+H+21): LET T=T+2
190 NEXT H
200 NEXT V
```

Program 2

```
100 LET C=2
110 FOR I=32 TO 255
120 PRINT AT 0,0;CHR$ I
130 IF CODE SCREEN$ (0,0)=0 THE
N PRINT AT 4,C;CHR$ I: LET C=C+2
140 NEXT I
```

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REVIEW: DLS BUYERS GUIDE
by Bill Johnson

DESCRIPTION: DLS BUYERS GUIDE TO
SINCLAIR/TIMEX PRODUCTS AND SERVICES

TYPE: Buyers Guide - Loose leaf bound

EDITOR: Dale F. Lipinski

PUBLISHER:

D. LIPINSKI SOFTWARE
2737 Susquehanna Rd
Roslyn, PA 19001

AVAILABILITY: Through D. Lipinski
Software.

PRICE: \$20.00PPd. includes first
update. Visa/Mastercard accepted.

RATING: 8 out of 10

REMARKS: With no major source of
information available for the
Timex/Sinclair computers the DLS
Buyers Guide is a great idea. There
are many T/S dealers still in
business, but locating them is
sometimes difficult. Most of the T/S
dealers are small businesses and
cannot afford to advertise on a
regular basis. The DLS Buyers Guide
lists the names of about 300 dealers,
all believed to still be in business.
Over 120 of these dealer's Product
lines are listed in an easy to follow
format with complete descriptions and
Prices. The result is a
comprehensive Guide to over 800
software titles, 100+ books, 100+
hardware items and many T/S related
supplies.

The Guide is in a handy full sized
loose leaf format. Every other page
is blank, which is very useful for
keeping notes. Each dealer is listed
with its complete Product line. This
information is supplied by the
dealer. Each Product is numbered and
categorized. The category index
breaks down Products into about 30
different categories. This index
makes it very easy to locate all
Products of a Particular nature. For
example, say you are looking for

educational software dealing with
spelling. You would look under the
Educational Software category and
under spelling there are four titles
listed: 0045, 0121, 1124 and 1129.
Simply turn to each of the Product
numbers and you will find a complete
description and ordering
information.

If a Particular dealer's Product line
is not listed it is their own fault.
D. Lipinski Software contacted over
1,000 dealers during the Fall of
1984. DLS sent to all dealers listed
during the beginning of 1985 and an
update of additional Product lines
and corrections will be available
sometime after March 1985. This
update will be sent to all
Purchasers. I feel that the DLS
Buyers Guide is an excellent buy at
only \$20.00. Thanks, Dale, for
helping the T/S survive.

EDITOR'S NOTE: On April 15th we
received the 1st update to the DLS
Buyers Guide and are impressed. The
update has increased the number of
items to almost 2,000. A new index
has been added which lists Products
in alphabetical order. This has
improved an already fine Product.
The loose leaf is now massive! We
increase at least 1 Point to a 9,
it's really a close 10.



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DATA/READ on a TS1000

by
Bill Johnson

As many of you have discovered the ZX81 computer does not have the DATA and READ commands in its vocabulary. These commands are the backbone of BASIC Programming. You may have been unable to enter many Programs written for other computers since you did not have the Power of DATA and READ. The following only applies to the TS1000, TS1500 and Sinclair ZX81, the TS2068 uses the DATA and READ commands.

First, let's define the commands:

DATA: The DATA statement is a Place to store values. Each value is separated by a comma. The values entered into a DATA statement can be alphanumeric in nature.

READ: The READ statement inputs the values from the DATA statements into variables defined in the Program.

An example of the use of these commands follows:

```
5 DIM A(5)
10 FOR I=1 TO 5
20 READ A(I)
30 NEXT I
40 DATA 1,2,3,4,5
100 FOR I=1 TO 5
110 PRINT A(I)
120 NEXT I
```

The above Program would feed the values of the DATA statement to the variable A(I). After running this Program the values of A(I) would be 1, 2, 3, 4, and 5.

So how can the DATA/READ routine be used on your T/S?

The easiest way to explain is with an example. The Program below will accomplish the same as the Program above:

```
10 LET A$="1,2,3,4,5,"
20 DIM A(5)
30 LET X=0
```

```
40 LET Y=1
50 FOR I=1 TO LEN A$
60 IF A$(I)="," THEN LET X=X+1
70 IF A$(I)="," THEN LET A(X)=
VAL A$(Y TO I-1)
80 IF A$(I)="," THEN LET Y=Y+1
90 NEXT I
100 FOR I=1 TO 5
110 PRINT A(I)
120 NEXT I
```

The lines 100 to 120 simply show you the results, they are not needed. We will now go line by line:

LINE 10: Acts like a DATA statement. You store your values here. It is important to end this statement with a "," or the last value will not be input.

LINE 20 to 40: These lines set various variables.

LINE 50: This line sets a loop the length of A\$. In this case the length is 10.

LINE 60 to 80: These lines all ask the question: is the next item in A\$ a ",". The comma is used to separate each value. If a comma is found line 60 increments X by 1. X is used to set the value of A, the letter of the variable being read.

Line 70 stores the value into the variable A. Line 80 increments Y, which is the starting Place for the next value.

As you can see the above Program accomplishes the same as the DATA/READ commands. The above routine can also be used to read in ALPHA values, as follows:

```
10 LET A$="A,B,C,D,E,"
20 DIM B$(5)
30 LET X=0
40 LET Y=1
50 FOR I=1 TO LEN A$
60 IF A$(I)="," THEN LET X=X+1
70 IF A$(I)="," THEN LET B$(X)
=A$(Y TO I-1)
80 IF A$(I)="," THEN LET Y=Y+1
90 NEXT I
100 FOR I=1 TO 5
110 PRINT B$(I)
```

This Program works the same way as our Previous Program. One limitation is that you can not use the "," character in your values or the Program will consider this a stop point.

The above routines can be used to read values for various variables at the same time. For example, you may have a DATA statement: 1,A,2,B,3,C,4,D,5,E. You can read the values by combining the methods used above. I will leave this for you to do. If you have any BASIC questions let me know and I will try to answer them to the best of my ability.

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FOR

ZX-80	ZX-81	SPECTRUM	QL
TS-1000	TS-1500	TS-2068	

We have attempted to contact over 1000 possible suppliers of products and services for these computers. The data we received is arranged so that it may easily be updated. The indexes are used to enable you to find and compare possible product choices. Comprehensive category list is invaluable in your search of a product. Price: \$20.00 (US) postpaid includes the update that's scheduled for the first quarter of 1985. Check Money Order, VISA or MASTERCARD. Sorry no COD. Stamped addressed legal envelope for complete details and a catalogue of EDUCATIONAL, BUSINESS and PERSONAL software plus our new hardware and supplies section.

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DATA BASE SHOWDOWN by Bill Johnson

The following is a review/comparison of General Purpose data base Programs for both the TS1000 and TS2068. A General Purpose data base Program can be one of the most useful Programs a computer user can use. What do we mean by a data base Program? An excerpt from Thomas B. Woods' Pro/File 2068 manual explains a data base as:

"You can think of it as an electronic box of index cards. With real index cards, you can write the information you want to keep on them. Then you organize the cards in some convenient order so when you need to look something up you can find the right card with a minimum hassle. Cards holding a list of names, say, could be organized alphabetically so that when you need to find someone named SMITH flip to the names beginning with "S". Then you hunt..."

This statement explains the general nature of a data base. Just think of each screen displayed on the computer as an index card.

Before we go further I would like to thank all of the manufacturers of the various data bases for providing us with a copy and want to assure them that I looked at each impartially. I would also like to add that all of the Programs are well thought out and well written. Trying to compare Programs of a similar nature can be difficult unless a general guideline is set-up. The following categories should show the good and bad points of each Program:

1. **EASE OF USE:** This is a subjective category, since some people may need more instruction than others to get a Program up and running. This category judges how easy it is to use the Program. In other words, did it take 10 minutes or 3 hours to get a basic working knowledge of the Program.
2. **DOCUMENTATION:** Does the documentation serve its purpose of explaining how to use the Program?

I feel that if a Program is well written little explanation is needed on how to use it.

3. **VERSATILITY:** Can the Program be expanded or changed? Can a TS1000 16K Program be used with 64K? Can a TS2068 Program be used with a full sized Printer? Does the manual explain how to do this?

4. **FORMATTING EASE:** Formatting is the ability to set-up the type of data to be entered on a screen of a data base. It is important to have data entered in a uniform manner. If the format is not uniform throughout the data base Problems will occur when it comes time for searches and Printouts.

5. **EASE OF USE:** When it comes time to enter data, Perform searches for data, or to Perform any task, is it easy to do or complicated. User friendliness has alot to do with this category.

6. **EDIT/CORRECTION EASE:** Everyone makes typing mistakes. People change their addresses, files must be added and deleted. How easy is the edit/correction mode of the Program?

7. **FILE ACCESS/SORTING:** How fast is the Program in bringing a file to the screen? Each Program was filled with the same data and judged as to speed and accuracy, as well as ease of file access. Can searches for specific categories be performed? For example, if you wish a list of all people who live in New York and have a telephone area code of (516), can you do this?

8. **PRINTER ACCESS:** Can you format the output to a Printer? At times you may not want the complete file to be Printed. For example, on mailing lists you may want to Printout only name and address without the telephone number or other data in the file. Will the Program allow this?

9. **CAPACITY/FLEXIBILITY:** How much

can the Program hold and is the size flexible? Is every line on the screen a set size or does it adjust to your input? For example, if you Put in the name: BILL JOHNSON; does it take 32 or 12 characters of memory?

10. **OVERALL REACTION:** This is a very subjective category. Did we like the Program? Is it a good value for the money?

Tying it all together:

On the following pages you will find our review of each Program using the above as our guideline. After each computer type you will find our report cards on each Program. Each category was graded from 1 to 10. Excellent: 8-10, Good: 5-7, Poor: under 5. The grades for each of the ten categories are added to come up with the total grade, with 100 being Perfect.

Each Package was tested as supplied by the manufacturer, no changes have been made to any of the Programs. Most of the Programs allow the user to alter them to his or her own needs. If you decide to Purchase one of the Programs Please tell them that you made you decision from the review in QuarTers. Thanks!

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REVIEW: PRO/FILE 2068

DESCRIPTION: PRO/FILE 2068

TYPE: Data base

AUTHOR/MANUFACTURER:

Thomas B. Woods

PO Box 64

Jefferson, NH 03583

AVAILABILITY: Many software dealers
and from Thomas B. Woods.

REQUIREMENTS: TS2068

PRICE: \$29.95

PRINTERS: TS2040 and full-sized with
the following interfaces: AERCO and
TASMAN centronics interfaces and the
BYTE-BACK RS232 serial interface.

OVERALL GRADE: 91

1. EASE OF USE: Getting the PRO/FILE 2068 up and running was very easy. The eight page manual provided with the Program was easy to follow. RATING: 9.
2. DOCUMENTATION: As stated above an eight page manual is provided with the Program. Also included is a coupon to be sent to Mr. Woods for the 100 page manual. We received the manual in February and assume that all prior purchasers have or will receive the manual. As stated in the manual it took Mr. Woods one year to gather the information for the manual. The manual is not 100 pages but 143 pages and hits upon almost any topic you can think of. There are many examples of practical uses of the Program. Both the Basic and Machine Code Portions of the Program are listed and fully explained. RATING: an easy 10.
3. VERSATILITY: The Program can be altered to your own needs. The manual addresses almost any alteration you can think of and if it doesn't a SASE or call to Mr. Woods will give you the answer. The only shortcoming we found was in mathematical calculations.

Data bases normally allow you to perform calculations, such as adding numbers that appear on the same line of each file. The P/F uses the '*' to mark the start of each file. Because of this the '*' cannot be used or the Program will consider a start of a new file. The manual does explain how to get around this by changing $7 * 3$ to $7/(1/3)$. Both formulas will give you the same answer but it is awkward to use and remember. Realistically multiplication may not be used much in a data base and the Program is so versatile that this does not really affect our RATING of 9.

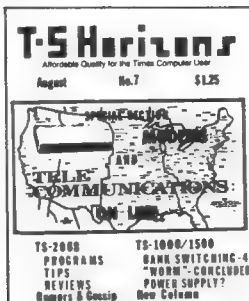
4. FORMATTING EASE: The P/F does not let you format your data files. This means that when you are entering new data there are no screen prompts. You must rely on your memory when inputting data. This can be awkward since it is important to be consistent when dealing with a data base. The manual suggests a 'HELP' file which can be called up when you need to see the format. You could also just write down the order of your file data for reference. RATING: 7.
5. ENTRY EASE: It is easy to enter data with the P/F. If the Program contained formatting prompts we would give it a 10. RATING: 8.
6. EDIT/CORRECTIONS EASE: The P/F allows you to edit/correct entries by entering the letter 'E' and by using the cursor, arrows, keys to move to the area of the file to correct. This is very easy to use. Entry lines can be added or deleted and text can be added without overwriting previous information. RATING: 9.
7. SCREEN ACCESS/COLLATING: Finding a file and collating by any line of the files is very easy to do. Files pop-up on the screen with the speed of a blink of an eye, even when memory is full. Collating is a little slow but not bad. RATING: 9.

8. **PRINTER ACCESS:** As stated above you can use the Program with the TS2040 (ALPHACOM 32) Printer or any number of full sized Printer interfaces. The manual explains fully how to add the various 9. **CAPACITY/FLEXIBILITY:** The P/F has space for 28,000 characters. This really amounts to more when you consider that the Program does not require you set the fields of data files. Other Programs require you to set-up fields of a set length. If a field is set for 32 characters, in other data bases, every entry to that field uses 32 spaces, even if the entry is only 1 character long. The P/F uses only what you use. **RATING: 10.**

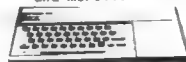
10. **OVERALL REACTION:** What can we say? An excellent Program that is easily worth its Price. **RATING: 10.**

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Wmj

REVIEW: MASTERFILE

DESCRIPTION: MASTERFILE version 09

TYPE: Data base

AUTHOR: Campbell Systems

DISTRIBUTED BY:

Ramex International Ltd
 48945 Van Dyke Rd
 Utica, MI 48087
 01-313-463-1795

AVAILABILITY: Software dealers or from Ramex International.

REQUIREMENTS: TS2068

PRICE: \$39.95

PRINTERS: TS2040 and full sized with TASMAN interface.

OVERALL GRADE: 84

(1) **EASE OF USE:** Getting Masterfile up and running to your specific requirements will take some work on your part. Masterfile lets you set-up formats, as will be discussed below. The manual comes with an exercise of how to set-up the Program. It is recommended that you follow through the exercise, as it will help you learn how to use this very Powerful Program. **RATING: 7.**

(2) **DOCUMENTATION:** The manual provided with Masterfile is 20 Pages and includes a four Page insert. Also provided are a few notes on use of the Program in the first Program on side one. The manual is written for the ZX Spectrum version and has not been re-written for the TS2068. The manual provides a clear explanation on how to use the Program. **RATING: 7.**

(3) **VERSATILITY:** The Program is fairly comprehensive. You can do many things with it without altering the Program. The Program will TOTAL/AVERAGE data but will not handle negative numbers. For more advanced mathematical calculations the user will have to add to the basic Portion of the Program. The basic Portion is listable which

enables you to make alterations, but most of the Program is in machine language. RATING: 7.

(4) FORMATTING EASE: Setting up a format to your liking is time consuming. Each record can be formatted into 26 different items. Each item can hold up to 128 characters. While it is time consuming, an excellent format can be had with Masterfile. Once you get the hang of it formatting will become easy. RATING: 9.

(5) ENTRY EASE: Entering data into Masterfile is easy. A good feature of the Program is that you do not have to enter data in any specific order. Most other data bases which allow you to format your data will only allow you to enter data in a specific order; ie. Name, Address, City... With Masterfile you can input data in any order you want or by using the PROMPT command the Program will ask for specific data. RATING: 10.

(6) EDIT/CORRECTION EASE: Making changes to your existing records is fairly easy with the use of Masterfile's extensive menu. RATING: 8.

(7) SCREEN ACCESS/COLLATING: finding a record is easy and collating can be done using any of the 26 items you have previously formatted. Collating is excellent. You can use equal to, unequal to, less than, greater than or string search. RATING: 10.

(8) PRINTER ACCESS: The Program can be used with the TS2040(ALPHACOM) Printer. On side two a utility Program is supplied which will allow the use of a full sized Printer with the use of a TASMAN centronics interface. You can set-up specific Print formats for mailing labels, letters, reports, etc. The manual mentions nothing of using the AERCO interface, so we do not know if Masterfile can be adapted for use with the AERCO interface. Since AERCO is the most popular US interface we have to lower our rating to 7.

(9) CAPACITY/FLEXIBILITY: Masterfile will hold around 32,000 characters. Like the PRO/FILE 2068, Masterfile has a flexible storage capacity. If you put in 3 characters it only take up 3 spaces in memory. RATING: 10.

(10) OVERALL REACTION: A very well written Program with many uses. Once you become familiar with its commands you will find it easy to use. At a Price of \$39.95 I would expect a U. S. version of the manual with more examples and an explanation of how to use the AERCO interface, which is the more common interface in the U. S. Putting all of this aside, the Programs are excellent and well worth the Price. RATING: 8.

REVIEW: FILE

DESCRIPTION: FILE

TYPE: Data base

AUTHOR: D. Lipinski Software

DISTRIBUTED BY:
D. LIPINSKI SOFTWARE
2737 Susquehanna Rd
Roslyn, PA 19001

AVAILABILITY: Through D. Lipinski Software - Mastercard/Visa accepted. \$1.50 shipping.

REQUIREMENTS: TS2068

PRICE: \$20.00

PRINTERS: TS2040 and full sized.

OVERALL GRADE: 79

(1) EASE OF USE: Getting FILE up and running to your specific requirements is fairly easy, the Prompts are self explanatory. After you set up you formats the Program lets you know how many entries you can enter and even gives you a choice of using full memory or for leaving memory to make corrections latter. The Program is very user freindly. RATING: 9.

(2) DOCUMENTATION: Provided is a 14 Page manual which starts with the

following statement:

"This Program was written with the knowledge that it will need to be changed in the future. To fully use the Power of the computer the storage device the it uses must be better than a cassette recorder. With this in mind we set out to create a Program, that while there are no readily available mass storage devices out as yet will work with a cassette recorder. You will automatically receive changes when they are implimented."

The manual explains how to setup and use FILE in very clear terms. A few brief examples are given. RATING: 8.

(3) VERSATILITY: FILE is written fully in BASIC and easily adapted to the user's needs. A quote from the DLS brochure puts this well:

"All DLS Program are written in BASIC so that you may learn how it is done so that you may modify them to suit you needs. Note that most Programs are written for general use & if they were in machine language, they would at best be very difficult to modify to suit to your needs. The few extra moments that you are waiting for the computer to do something in BASIC is well worth it if you are able to get what you need."

This statement sums-up the Program very well. FILE, as set-up, does not handle any math functions, as most data bases do. But since the Program is written entirely in BASIC adding the necessary commands should not be too difficult. RATING: 8.

(4) FORMATTING: Formatting is easy as discussed above. You set the name and capacity of each line. RATING: 9.

(5) ENTRY EASE: FILE has very user friendly Prompts which make entering information easy. RATING: 10.

(6) EDIT/CORRECTION EASE: Once again

friendly Prompts lead you in making any changes. Changes you have made are shown as inverse characters and the opportunity to correct other data is presented after each change. RATING: 8.

(7) SCREEN ACCESS/COLLATING: You can call any file by any one of the Preset categories, which is very handy. You can also search for two categories at one time. For example, you may wish to see every file with the name Johnson in the state of NY. This would be easy to accomplish with FILE. When the Program is full searches and collating, by any category, may be slower than machine language Programs. But we found the Program to search and collat at a good speed. RATING: 7.

(8) PRINTER ACCESS: The Program can be used with a TS2040 or ALPHACOM-32 with no Problem. The use of a full sized Printer should Present no Problem, since enough memory is left in the Program to add you Printer interface software. The Program, as written, only allows on category per line. If you wish to setup a file with the first category being the first name and the second category being the last name of a Person, the Printout would appear as separate lines. Bout since the Program is written in BASIC you can change this with no Problem. RATING: 7.

(9) CAPACITY/FLEXIBILITY: Each category has a fixed length, which was set by the user in the beginning and cannot be changed without losing data. If you Preset a category to 20 characters and only put in 5 you will use 20 spaces in memory. FILE holds slightly less data than the other data bases we have seen. This is because of the user friendliness which is displayed throughout the Program. For a normal mailing list you should be able to hold around 200 names depending on your category dimensions. Since the category sizes are not flexible we can only give it a rating of 6.

10) OVERALL REACTION: FILE is a well written Program which makes a good data base if you need a Program which

can be altered to suit your needs. A flexible data caPacity would defently give this Program a much higher rating. I would also like to see the Program cleaned-up a little, there are a few spelling and letter transPosition errors in the Program, but nothing that affects the Program. The BASIC language may slow down the actions of a Program, but the ability to easily alter the Program is a good tradeoff. RATING: 7.

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WMJ DATA SYSTEMS
4 BUTTERFLY DRIVE
HAUPPAUGE, NEW YORK 11788

REVIEW: FASTFILE

DESCRIPTION: FAST FILE

TYPE: Data base

AUTHOR/MANUFACTURER:

Tom Cole
1314 Speight #15
Waco, TX 76706

REQUIREMENTS: TS1000, TS1500 or ZX81 with 8K to 64K RAM.

PRICE: \$19.95 (See ad this issue)

PRINTERS: Any Printer which accepts LPRINT, which means any.

OVERALL GRADE: 95

(1) EASE OF USE: FASTFILE is a Powerful Program which will take a little while to get the hang of. Once you use the Program for a while it is very easy to use. The menus are simple to understand and use. The screen Prompts are excellent and guide you through each function with ease. RATING: 9.

(2) DOCUMENTATION: A 22 Page manual is Provided with the Program. It is well written and covers all aspects of the Program. It gives good examples of the Programs use and explains how to modify the Program. RATING: 10.

(3) VERSATILITY: The entire Program is written in machine code so alterations are not really feasible. The manual addresses many of the normal alterations. The QUERY option is excellent. Any question which starts with "Which...", "How many...", or "How much..." can be answered. For example: "How many checks did I write in December and what is the total?" After the query is answered by the Program any field can be totaled. The Program can only add but you can use negative numbers to subtract. RATING: 9.

(4) FORMATTING EASE: Side B of the cassette has an example of a formatted FASTFILE. It is an example of a checkbook setup with FASTFILE.

If you follow the tutorial section of the manual with the checkbook in your computer the Process of learning FASTFILE is made easy. The Program allows you to set-up formats and the Program Prompts all inputs with these formats. You can define data types and fields. If you are using FASTFILE as a checkbook you can set the check number to allow only numerical characters and to only accept 3 digit numbers. RATING: 9.

(5) ENTRY EASE: Entering information is easy. The Program, as set up by you, will only let you Put in specific information. If you want a Preformatted data base with good Prompts than FASTFILE is excellent. RATING: 10.

(6) EDIT/CORRECTIONS EASE: FASTFILE lets you go to any field in any file and change it. Use of the cursor keys and simply typing in the new data makes editing and corrections a snap. RATING: 9.

(7) SCREEN ACCESS/COLLATING: You can call up any file or group of files using the following commands: >, <, >=, <=, =. Searches can be Performed with any field of information or with multiple fields. The fields can be Put into ascending or descending order based on any field. So this means that you can Put the files in alphabetical or numerical order based on any field. The Program is also fast in calling up data. RATING: 10.

(8) PRINTER ACCESS: The Program can be used with any Printer that accepts the LPRINT command, this means any Printer. The Printout will appear exactly as it appears on the screen, which was previously formatted by you. You can also change the Position of the fields. RATING: 9.

(9) CAPACITY/FLEXIBILITY: The Program has a good capacity with the ability to hold 176 records in 16K with a basic mailing label format. The manual explains how to use the Program with more than 16K. FASTFILE'S memory is handled dynamically so you do not have to re-dimension arrays if you wish to switch from 16K to 48K. RATING: 10.

(10) OVERALL REACTION: An excellent Program with alot of Power. The Program is well written and the overall impression is that of Professionalism. Easily worth \$19.95. RATING: 10.

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To order send \$19.95 plus \$2.00 P&H for cassette and manual Tom E. Cole, 1314 Speight #15, Waco, TX 76706
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WMJ DATA SYSTEMS
4 BUTTERFLY DRIVE
HAUPPUGE, NEW YORK 11788

REVIEW: SCREEN FILE

DESCRIPTION: SCREEN FILE(16K)

TYPE: Data base

MANUFACTURER/DISTRIBUTOR:

BANTA SOFTWARE
8088 HIGHWOOD WAY
ORANGEVALE, CA 95662
(916)722-4895

REQUIREMENTS: TS1000, TS1500 or ZX81 with 16K.

PRICE: \$Not supplied-If memory serves the Price is low.

OVERALL GRADE: 69

(1) EASE OF USE: SCREEN FILE is very easy to use. It is easy to set up and the menus are easy to understand. RATING: 9.

(2) DOCUMENTATION: The manual is only 5 Pages but is well written and explains all of the functions of the Program well. RATING: 8.

(3) VERSATILITY: The Program is written in machine code so the Program can not be altered to fit the user's needs. The Program does not handle mathematical functions. RATING: 6.

(4) FORMATTING EASE: SCREEN FILE has been Preformatted to include name, address, telephone number and key line in every file. The user has the option of up to 6 additional lines which can be used for other information. Setting up the formats is very easy since you really do not have a choice. It would be nice to see a more flexible formatting ability. RATING: 6.

(5) ENTRY EASE: Entering data is very easy as the Program Prompts you for each line and you can use the keyboard in the normal way. RATING: 9.

(6) EDIT/CORRECTIONS EASE: SCREEN FILE lets you insert or delete any information in any file. We found a bug which can be a hassle. If you are editing a file and by accident

delete the first character in a line each line is thrown off. The Procedure to delete is to Place the cursor on the last character you want deleted. Then you Press the left cursor key until it is on the first character to be deleted. If this first character is the first character of a line and you Press the left cursor key the cursor will jump to the last space of the line above it. It seems that once this is done all files will switch so they start in the 32nd Position of the line above it. If you are careful you can avoid this, but it seems that the Programmer could have avoided this. RATING: 5.

(7) SCREEN ACCESS/COLLATING: The Program allows you to search for a file by any Part of the following: name, zip or key line. The Program is very fast in calling up a file. There is no Provision for sorting data. The Program will continue through all of the files until you find the one you are looking for. RATING: 6.

(8) PRINTER ACCESS: You can use the Program with a TS2040 or other 32 column Printer. But since the Printout can not be modified it Probably cannot be useful with a full sized Printer if you want mailing labels. RATING: 6.

(9) CAPACITY/FLEXIBILITY: The Program uses 32 characters Per line. It is not flexible to the size of your input. SCREEN FILE holds a large number of records for having set lines. Depending on the number of additional lines the user selects, from 1 to 6, the Program will hold from 54 to 112 files. RATING: 8.

(10) OVERALL REACTION: SCREEN FILE does not have many of the features of other data base Programs. If you do not need these features the Program is good for basic mailing lists. RATING: 6.

W M J Data Systems

4 BUTTERFLY DRIVE
HAUPPAUGE, NEW YORK 11788

SOFTWARE by WMJ DATA SYSTEMS

TAX RETURN ORGANIZER: This tax program can be used YEAR-AFTER-YEAR since it does not follow the ever changing tax forms. This package of four programs helps the individual tax payer organize his or her tax records. The programs ask questions which can be answered by referring to W-2 forms, interest statements, etc. The information is displayed in a spread sheet format on the screen or can be printed to a printer. It is recommended that hardcopy be kept for tax records.

TS1000 with 16K	\$18.00ppd.(tape and manual)
TS2068	\$20.00ppd.(tape and manual)

The following programs come in two versions:

TS1000 with 16K	\$10.00ppd.(tape and manual)
TS2068	\$12.00ppd.(tape and manual)

CHECKREC: This program can be used to keep track of all your checking account transactions. The program will automatically reconcile the account to the bank statement. The TS1000 version will hold 60 transactions and display them in a spreadsheet format. All transactions can be printed to a printer; as can a recenciliation summary, list of deposits in transit and all outstanding checks. The TS2068 version will hold up to 200 transactions. This program can also be used with a savings account.

STOCK WATCH: This program keeps track of all stock transactions including date purchased/sold, purchase price, broker's fees, and profit (loss). The TS1000 version will hold 80 transaction and the TS2068 version will hold 300 transactions. Information is displayed on the screen in a spreadsheet format and can also be printed to a printer.

APPOINTMENT WATCH: This program keeps track of all your appointments in a spreadsheet format. Date, time, name, confirmation of appointment, etc. Information can be printed to a printer. TS1000 version holds 80 appointments and the TS2068 version holds 300 appointments.

ADDRESS BOOK: Keep track of all your important names, addresses, and telephone numbers. Information is printed to screen in a spreadsheet format or to the printer in any number of ways. Information can be alphabetized. TS1000 version: 60; TS2068 version: 200.

HOUSEHOLD INVENTORY: Maintain a listing of all your important personal belongings. Keep track of all important data: serial numbers, original cost, etc. TS1000: 80; TS2068: 300.

ACEY DUCEY
by Dale Lipinski

Here is a fun Program that can be
used on either the TS1000 or TS2068:

```

10 REM "ACEY"
20 GOTO 1000
100 REM Y OR N
110 INPUT A$
120 IF A$="Y" OR A$="N" THEN RE
TURN
130 GOTO 110
200 REM SET DECK
210 DIM B$(14,5)
220 FOR A=2 TO 10
230 LET B$(A)=STR$ A
240 NEXT A
250 LET B$(11)="JACK"
260 LET B$(12)="QUEEN"
270 LET B$(13)="KING"
280 LET B$(14)="ACE"
290 RETURN
1000 RANDOMIZE
1010 CLS
1020 PRINT "*** ACEY DUCEY ***"
1030 PRINT "DO YOU WISH INSTRUCT
IONS? (Y) OR (N)"
1040 GOSUB 100
1050 IF A$="N" THEN GOTO 1100
1060 PRINT "INSTRUCTIONS: THE CO
MPUTER WILL DEAL 2 CARDS FACE UP
. YOU WILL HAVE THE OPTION TO B
ET OR NOT."
1070 PRINT "THE OBJECT IS TO GUE
SS IF THE","NEXT CARD WILL BE BE
TWEEN THE","FIRST TWO."
1080 PRINT "PRESS ENTER TO CONTI
NUE"
1090 INPUT A$
1100 LET M=100
1110 GOSUB 200
1200 CLS
1210 PRINT AT 1,0;"YOU HAVE $";M
;" TO BET WITH"
1220 PRINT
1230 PRINT "HERE ARE THE FIRST T
WO CARDS"
1240 PRINT
1250 LET A=INT (RND * 13)+2
1260 IF A<2 THEN GOTO 1250
1270 IF A>14 THEN GOTO 1250
1280 LET B=INT (RND * 13)+2
1290 IF B<2 THEN GOTO 1280
1300 IF B>14 THEN GOTO 1280
1310 IF A>=B THEN GOTO 1250
1320 PRINT B$(A),B$(B),, "WHAT I
S YOUR BET?","0 = NO BET"
1330 INPUT E
1340 IF E=0 THEN GOTO 1570

```

```

1350 IF E>M THEN PRINT AT 10,0;"
SORRY YOUR BET IS TOO HIGH"
1360 IF E>M THEN GOTO 1330
1370 IF E<1 THEN PRINT AT 10,0;"
SORRY MUST BE AT LEAST $1"
1380 IF E<1 THEN GOTO 1330
1400 LET C=INT (RND * 13)+2
1410 IF C<2 THEN GOTO 1400
1420 IF C>14 THEN GOTO 1400
1430 PRINT
1440 PRINT "NEXT CARD IS ";B$(C)
1450 PRINT "YOUR BET WAS $";E
1460 IF C>A THEN GOTO 1480
1470 GOTO 1530
1480 IF C>=B THEN GOTO 1530
1490 PRINT "***** YOU WIN *****"
1500 LET M=M+E
1510 PAUSE 300
1520 GOTO 1200
1530 PRINT "??? SORRY YOU LOOSE
???"
1540 LET M=M-E
1550 IF M=0 THEN GOTO 1600
1560 GOTO 1580
1570 PRINT"**** CHICKEN ****"
1580 PAUSE 300
1590 GOTO 1200
1600 PRINT AT 18,0;"I AM SORRY Y
OU ARE BROKE. DO YOUWISH TO PLAY
AGAIN? (Y) OR (N)"
1610 GOSUB 100
1620 IF A$="Y" THEN GOTO 1000
1630 CLS
1640 PRINT AT 10,1;"THANK YOU. I
HOPE YOU HAD FUN."
1650 STOP

```

EDITOR'S NOTE: For the TS2068 add
line 15 POKE 23658,8. This command
will turn on the CAPS LOCK. This
will make sure that you only answer
questions with capital letters.

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REVIEW: A&J MICRODRIVE 2000
by Thomas Beutel

DESCRIPTION: A & J Microdrive 2000

MANUFACTURED BY:
A & J Microdrive
Suite I
1050 East Duane Ave
Sunnyvale, CA 94086

AVAILABILITY: Many hardware dealers
and directly from A & J.

REQUIREMENTS: TS2068

PRICE: \$200.00 (suggested retail)

WARRANTY: 90 Days

After repeated problems with loading
and saving Programs on cassette I
eagerly awaited a better solution.
When I saw A&J Microdrive's first ad
for their Model 2000 I bought one.

For \$200 the A&J Microdrive comes
complete with one drive, a Plug-in
interface, 5 Microwafers of different
lengths, a folder that holds 16
Microwafers and a manual with
schematics. The interface Plugs into
the TS2068 rear connector and
Provides feedthrough for all signals.
On the back of the interface are
connectors for Drive 0 and Drive 1.
The additional Drive can be Purchased
for \$125. The interface also has a
Parallel Printer Port connector on
top, but A&J has not released any
information on it yet.

The software for the drive is
contained in PROM and is
automatically loaded into the
computer upon Power-up. The software
was cleverly written and allows you
to use the commands SAVE, LOAD,
MERGE, VERIFY, CODE, DATA and SCREEN\$
as you do with your cassettes. To
use these commands for the
Microdrive, you simply add a 'D' as
the first letter of the file name.
This allows you to keep your cassette
recorder connected if you still need
to use it.

Using the Microdrive is very easy,
but there are a few things to keep

track of. You have to know how many
files are already on the wafer before
saving another one, because you must
Provide a file number from 1 to 9.
You can't write over a file if there
are others behind, since you risk
writing over the other files. When
you are developing a Program and you
make many saves, you must give each
version a different name to avoid
confusion.

On the Plus side, Programs take less
than 1 second Per kilobyte to load,
and you can store 85K on the longest
wafer. Since a wafer is a continuous
loop of tape, there is no rewinding
to do. Although the manual says you
can only save 9 files on a tape, you
can actually save more by using
characters that follow the character
'9', such as ':', ';', etc.

The wafers cost between \$4.25 and
\$4.75, and come in 14K, 28K, 49K, 70K
and 85K capacities. I Prefer the 49K
tape, because its shorter length
Provides a fast access time. The
Microdrive is warranted for 90 days,
and the wafers are guaranteed for 45
days. I am very Pleased with the
operation of the Microdrive and I can
recommend it to anyone who has a
TS2068.

EDITOR'S NOTE: A&J Microdrive also
has a version of the Microdrive
available for the TS1000, write them
for further information.

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SUNSET ELECTRONICS
2254 Taraval St
San Francisco, CA 94116
(415)665-8330

T. E. J. COMPUTER PRODUCTS
859 N. Virgil Ave
Los Angeles, CA 90029
(213)665-5111

NEW PRODUCT NEWS

DISC INTERFACE FOR TS2068-\$99.00

HERCO
Box 18093
Austin, TX 78760
(512)451-5874

A disc drive interface that allows upto 4 floppy disc drives of any size. The interface also has 64K of onboard RAM which may be used as a second bank of system memory or a CPM system. Disc drives also available - write or call for full details.

KEYBOARD INTERFACE-\$39.95+\$2.95
E-Z Key
(See address in DEALERS CATALOGS)

The Keyboard Interface module allows a keyboard to be Plused into the rear expansion connector on a TS1000/ZX81 or TS2068. This means that you do not have to open up or modify your computer to add a keyboard, joystick or numeric keypad.

MILLENNIA K-\$200
RAMEX INTERNATIONAL LTD
(See address in DEALER CATALOGS)

A disk drive interface for the TS2068 with SP-DOS operating system which offers: loads 32K Per second, store 820K Per disk, occupies 4K ram and is compatible with most software. Also, a complete disk system with drive #1, case and interface available for \$455. Write or call for further details.

COMPUTER REPAIR CENTER
TS CONNECTION
3832 Watterson
Cincinnati, OH 45227
(513)271-5575

Timex has turned over its repair center to TS Connection. Repairs should run between \$15-\$20 for TS1000 and \$35-\$40 for TS2068. TS Connection also carries a full selection of T/S Products.

Continued...

PUBLICATIONS

TIME DESIGNS MAGAZINE
29722 Hult Rd
Colton, OR 97017
6 issues \$15.00

This bi-monthly magazine is fairly new with 3 issues todate. The magazine covers all of the Timex/Sinclair computers and has good articles.

USER GROUPS

CALIFORNIA:

TIMEX USERS GROUP
1624 Loughborough
Merced, CA 95348
(209)383-2464

NEVADA:

T/S USER GROUP OF
LAS VEGAS
2405 Howard Dr
Las Vegas, NV

VIRGINIA:

SOUTHERN VA TIMEX USERS NETWORK
Gary Preston II
Route 1, Box 21
Glade Hill, VA 24092

WISCONSIN:

S. M. U. G.
PO Box 101
Butler, WI 53007

CANADA:

TIMEX SINCLAIR USER GROUP
OTTAWA CHAPTER
C/O R. Mulder
648 Joanisse St
Gatineau, Quebec
J8R 1H1

USER GROUPS: Send us information on you group and we will publish it in the next available issue. We want to help you reach new members. Send us your mailing list and we will send a sample copy of QTS to your members and if you wish we will even include WMJ Data Systems current catalog.

BLOOPERS

VISA PROGRAM(Winter 85) If you tried to type the Program into the TS1000 you may have experienced some problems. Lines 160, 230 and 300 all deal with INPUT statements. The TS2068 accepts INPUT with quotes after, like a PRINT statement. The TS1000 will not accept quotes after an INPUT statement. As an example change line 160 INPUT "Enter store ";C\$ to the following:

```
160 PRINT "ENTER STORE ";
165 INPUT C$
```

Change the other lines mentioned above in the same manner. You may also have to decrease the DIM statements in lines 40 and 50, depending on the size of your memory. The above should also help you when you come across other programs written for the TS2068 and want to type it into your TS1000.

CLASSIFIED ADS

FREE ADS: Subscribers to QTS are allowed one free classified ad per issue. The only requirement is that it not be commercial in nature. The ad should be 37 characters per line with a maximum length of 10 lines. Want to sell some of your dusty equipment or start a user group? Send in your ad and reach thousands of T/Sers. Commercial ads: Rates are \$4.00 per line-minimum of 3 lines.

TS1000-Great File Software at a rock-bottom Price! Send stamps for spec's! SOFTGEMS, Box 119, Mayville, NY 14757

EPROM PROGRAMMER READ,WRITE,COPY YOUR EPROMS WITH TS1000 KIT-\$49.95 PLANS-5 INFO: ROBOTRON IND., 1417 WAUWATOSA AVE. WAUWATOSA, WIS. 53213 DEPT. 640

QuarTerS
WMJ DATA SYSTEMS
4 BUTTERFLY DRIVE
HAUPPAUGE, NEW YORK 11788
(516)543-5252

FIRST AD
SPECIAL OFFER:
2 for 1

FIRST AD
SPECIAL OFFER:
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* * ADVERTISING RATES AND TERMS * *

General Description: QuarTerS(QTS) is a Publication dedicated to the Timex/Sinclair line of computers with an emphasis on the BASIC Programming language. QTS is dedicated to the BASIC language since most people use only BASIC and we want to show them how to use BASIC to its fullest. QTS also has columns and articles to help the T/S user to stay in touch with the T/S world.

Format: The format is normal 8 1/2" by 11" and then reduced to a smaller size. Starting with the Summer 85 issue a daisy wheel Printer will be used to set-up QTS. This will give it a better appearance and format. Each issue will be increasing in page size, with between 24 and 30 pages expected for the Summer 85 issue.

Advertising: All ads must be camera ready and exact size. We do not do any artwork on ads. Borders and anyother special effects are not done by us.

SIZE	DIMENSIONS	PRICE
1 Page	8.5" x 11"	\$225
1/2 Page	8.5" x 5.5" or 4.25" x 11"	125
1/4 Page	4.25" x 5.5"	75
Business Card	2" x 3.5"	40
Classified Ads (commercial)	37 characters Per line (3 line minimum)	4/line

Placement: Preferred Placement of ad is available at a 10% Premium. Preferred Placement ads and Payment must be received 15 days Prior to closing dates below.

SPECIAL OFFER: When you Place your first ad in QuarTerS we will Print the same ad in the next issue at no extra charge. Combined circulation of two issues should easily reach 5,000+. Ad and Payment must reach us by the deadlines below. This offer applies only to first time advertisers and is not retroactive for Past advertisers.

Closing Dates: Winter issue-12/31 * Spring issue-03/31 * Summer issue-06/30
* Fall issue-09/30.

Payment: Payment must be received by the closing dates above. Check or Money Order should be made Payable to: WMJ DATA SYSTEMS.

General: All advertisers receive free subscriptions to QuarTerS. Each issue will be mailed to all subscribers between the 20 and 25th of each of the following months: Winter-January * Spring-April * Summer-July * Fall-October. At least 1,000 sample copies of each issue will mailed to various mailing lists. Sample copies may or may not be mailed at the same time as the subscribers' copies. QuarTerS is a division of WMJ Data Systems and may refuse to accept any advertising that it considers unsuitable.

QuarTerS is Published Quarterly by: Publication dates:

WMJ DATA SYSTEMS
4 BUTTERFLY DRIVE
HAUPPAUGE, NY 11788
Telephone: (516)543-5252

ISSUE

WINTER
SPRING
SUMMER
FALL

PUBLICATION
DATE END OF

JANUARY
APRIL
JULY
OCTOBER

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Funds add \$2.00 Per yearly
subscription for Air Mail.

Articles and Programs: QuarTerS accepts articles, reviews and Programs
relating to the Timex-Sinclair line of computers. QuarTerS pays the
following for Published material: Articles and reviews \$.08 Per word.
Programs \$.15 Per Program line-text accompanying Program based on article
rates. All Payment is for the edited version of submission and does not
include Editor's Notes or conversion to other computers by QuarTerS staff.
Payment will be sent within 15 days of end of Publication month.
Submissions must be received Prior to the end of the month Preceding
Publication month to be considered for next issue. Submissions will only
be returned if requested. Programs should be recorded on cassette tape
and labeled with name, address, computer type, requirements, etc.
Products sent for review will be returned only if requested.

QuarTerS

SUBSCRIPTION FORM

Send check or money order to:

WMJ DATA SYSTEMS
Dept. QuarTerS
4 Butterfly Drive
Hauppauge, New York 11788

-----Enter my 1 year subscription to QuarTerS. I have enclosed a check
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Start my subscription with the following issue (Please circle):

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does not 

Spring 1985

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Timex/Sinclair 1000-1500-2068

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